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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,806	03/04/2002	Saeko Kurachi	111204	1604
25944 75	90 11/05/2003	EXAMINER		
OLIFF & BER		ALEJANDRO, RAYMOND		
P.O. BOX 1992 ALEXANDRIA	=	ART UNIT PAPER NU		PAPER NUMBER
			1745	

DATE MAILED: 11/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n N .	Applicant(s)	<u> </u>
	10/086,806	KURACHI, SAEKO	
Office Action Summary	Examiner	Art Unit	
	Raymond Alejandro	1745	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	h the correspondenc address	••
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta  - Any reply received by the Office later than three months after the ma earmed patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONI tute, cause the application to become AB.	eply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication  ANDONED (35 U.S.C. § 133).	ation.
1) Responsive to communication(s) filed on 0	14 March 2002 .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice und			its is
Disposition of Claims			
4) Claim(s) <u>1-40</u> is/are pending in the applicat			
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8)⊠ Claim(s) <u>1-40</u> are subject to restriction and/on Application Papers	or election requirement.		
9)☐ The specification is objected to by the Exami	iner.		
10) The drawing(s) filed on is/are: a) ac	•		H
Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	ST
11) The proposed drawing correction filed on		sapproved by the Examiner.	Þ
If approved, corrected drawings are required in	•		Ş
12) The oath or declaration is objected to by the	Examiner.		É
Priority under 35 U.S.C. §§ 119 and 120			ST AVAILABLE COPY
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	Fi
a) ☐ All b) ☐ Some * c) ☐ None of:			O
1. Certified copies of the priority docume			Ö
2. Certified copies of the priority docume		·	7
3. Copies of the certified copies of the prapplication from the International I  * See the attached detailed Office action for a Ii	Bureau (PCT Rule 17.2(a)).	· ·	
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. §	§ 119(e) (to a provisional applic	cation).
a) The translation of the foreign language parts. Acknowledgment is made of a claim for dome			·
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Ir	fummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	<b></b> ·

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-8, 11-19 and 22-23, drawn to carbon monoxide selective oxidizing catalysts, classified in class 502, subclass 103.
  - II. Claims 9 and 20, drawn to carbon monoxide concentration reduction apparatus, classified in class 422, subclass 211.
  - III. Claims 10 and 21, drawn to fuel cells, classified in class 429, subclass 19.
  - IV. Claims 24-40, drawn to methods of manufacturing carbon monoxide selective oxidizing catalyst, classified in class 502, subclass 104 or 439.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the carbon monoxide concentration reduction apparatus does not require the specific oxidizing catalyst, that is, the apparatus per se can be effectively operated without the specific oxidizing catalyst, that is to say, with any other catalyst not containing the specific catalyst material such as a catalyst having a Pt alloy supported on a carrier including mordenite zeolite (as admitted by the applicants). The subcombination has separate utility such as providing a catalyst material for reducing carbon monoxide concentration.

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3. Inventions III and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the fuel cell per se does not require the specific oxidizing catalyst to operate, namely, the fuel cell per se can be effectively operated without the specific oxidizing catalyst, that is to say, with any other catalyst not containing the specific catalyst material such as a catalyst having a Pt alloy supported on a carrier including mordenite zeolite (as admitted by the applicants) or by providing a catalyst material integrally formed to the fuel cell. The subcombination has separate utility such as providing a catalyst material for reducing carbon monoxide concentration.

- 4. Inventions IV and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as claimed can be used to make other and materially different product, for example, (as admitted by the applicants) the process can be used to make a catalyst in which a Pt alloy is supported on a carrier including mordenite zeolite.
- 5. Inventions III and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the

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subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the fuel cell per se does not require the specific carbon monoxide concentration reduction apparatus, that is, the fuel cell can be effectively operated without any CO-related apparatus or with a CO reduction apparatus containing a catalyst in which a Pt alloy is supported on a carrier including mordenite zeolite. The subcombination has separate utility such as providing an apparatus for reducing carbon monoxide concentration.

- 6. Inventions II, III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, or different effects, for example, invention II is an apparatus for reducing carbon monoxide concentration while invention III provides a device for electrochemical generation of power and invention IV is a method for manufacturing or making catalyst materials for reducing CO concentration.
- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 8. Because these inventions are distinct for the reasons given above and the search required for one group is not required for other groups, restriction for examination purposes as indicated is proper.

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9. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Alejandro whose telephone number is (703) 306-3326.

The examiner can normally be reached on Monday-Thursday (8:30 am - 7:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on (703) 308-2383. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Raymond Alejandro Examiner Art Unit 1745

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